



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

CITY OF COLUMBUS WALESBORO LIFT STATION / FORCE MAIN REPLACEMENT AND SANITARY SEWER IMPROVEMENTS PER ADDENDUM #1 STATE REVOLVING FUND PROJECT # WW 08 09 03 04

DATE: March 13, 2012

TARGET PROJECT APPROVAL DATE: April 12, 2012

I. INTRODUCTION

The above entity has applied to the Clean Water State Revolving Fund (CWSRF) Loan Program for a loan to finance all or part of the wastewater project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The CWSRF has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the approval date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Max Henschen
Senior Environmental Manager
State Revolving Fund -- IGCN 1275
100 N. Senate Ave.
Indianapolis, IN 46204
317-232-8623; mhensche at ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address:	Walesboro Lift Station & Force Main Replacement and Sanitary Sewer Improvements PER Addendum #1 Columbus City Utilities 1101 McClure Road P.O. Box 1987 Columbus, Indiana 47202-1987
SRF Project Number:	WW 08 09 03 04
Authorized Representative:	Keith Reeves, Director of Utilities

II. PROJECT LOCATION

Columbus City Utilities is in Bartholomew County and serves most of Columbus. The Walesboro Lift Station 20-year service area is bounded by County Road South 300 West to the west, South of County Road West 450 South to the south, State Road 11 (Jonesboro Road) to the east and County Road West 300 South to the north. The future service area includes unincorporated Walesboro and the residential area of Bethel Village. The proposed Walesboro lift station is in the Columbus USGS 7.5' quadrangle, Wayne Township, T8N, R5E, section 14; its force main will be in sections 14 and 11, and in Columbus Township, section 2. Sewer and manhole rehabilitation will occur in T8N, R5E, sections 11, 14, 10 and 15.

III. PROJECT NEED AND PURPOSE

The Walesboro Lift Station and force main are 40 years old. The lift station has experienced problems with hydraulic capacity and operations and cannot handle existing or future peak wastewater flows from the service area. To resolve these concerns, the Walesboro Lift Station and force main need to be replaced. In addition, the sanitary sewers in the area have had several instances of sewer collapse, infiltration/inflow (I/I) related problems, sewer back-ups, and increases in sewer exfiltration. By rehabilitating area sewers, the city will reduce I/I and exfiltration and increase the collection system capacity. The Arvin Lift Station has also experienced operational problems and needs to be rehabilitated.

IV. PROJECT DESCRIPTION

The initial project includes lift station/force main construction and sewer rehabilitation. The city will construct a 4.18 million gallons per day (MGD) submersible lift station with an emergency generator

and will install approximately 9,200 feet of 16- or 20-inch force main from the new Walesboro Lift station north to the Southside Lift Station. The Priority 1 sewer rehabilitation project will include approximately 12,160 feet of cured-in-place (CIPP) sewer lining, manhole sealing and installation of 300 feet of new sewers in the area to convey existing waste water flows into the new lift station.

If bids and funding are favorable, the utility may also include the rehabilitation of the Arvin Lift Station by replacing the submersible pumps and controls. The city may also add Priority 2, 3 and 4 sewer rehabilitation projects, which include manhole sealing and rehabilitation of approximately 30,915 feet of sanitary sewer by CIPP sewer lining. See Figure 1.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

<u>Construction Project</u>	<u>Costs</u>
Walesboro Lift Station	\$1,100,000
New Force Main	848,000
Sewer Rehabilitation	<u>720,000</u>
Construction Subtotal	\$2,668,000
Contingency	<u>267,000</u>
Total Estimated Construction Cost	\$2,935,000
Non-Construction Costs*	<u>250,000</u>
Total Estimated Project Cost	\$3,185,000

Additional Construction Projects if bids and funding are favorable**

Arvin Lift Station	\$ 98,000
Priority 2, 3, and 4 Sewer Rehabilitation Projects	\$1,392,000

*includes legal, accounting, construction engineering, and construction observation fees.

- B.** The utility will use the unspent balance of approximately \$2,700,000 in SRF Loan # WW 08 09 03 04 which the city closed on in 2009. The utility will use local funds to pay the difference between the available loan dollars and the actual bid price.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

In addition to the selected alternative described above, the “No Action” alternative was evaluated for the project. The “No Action” alternative was rejected because it would not allow the utility to correct the undersized Walesboro Lift Station, I/I removal, exfiltration issues and hydraulic deficiencies in the service area. The city also evaluated another site for the new lift station.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed and Undisturbed Areas: The new Walesboro Lift Station will be constructed next to the existing one, and the existing station will be demolished. The force main to the north from the new lift station will be placed in farmland within 10 feet of an existing gravity sewer. The city will also upgrade an existing gravel road to the Walesboro Lift Station by lightly grading and replacing the stone. Most of the sewer rehabilitation work for the project will take place in open terrain areas, with some under streets. The Arvin Lift Station rehabilitation will take place within the existing structure and adjacent area, which has been previously disturbed by lift station construction.

Structural Resources (Figure 2): Construction and operation of the project will not alter, demolish or remove historic properties. If any visual or audible impacts to historic sites occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF's finding pursuant to the Section 106 of the National Historic Preservation Act is: "no historic properties affected."

Plants and Animals: The area where the force main will be installed between the Southside Lift Station and Opossum Creek is characterized by scrub-shrub and small saplings. If the force main is can be installed via horizontal directional drilling as proposed, then the vegetation will not be affected. If open cut installation is used to install the force main at stream crossings, a few trees would need to be removed at Denios Creek and at the tributary to Denios Creek. The proposed project is designed to avoid affecting wooded areas and will not affect endangered species.

Prime Farmland: The proposed project will convert 0.1 acres of prime farmland.

Wetlands (Figure 3): Neither the Walesboro Lift Station project nor the sewer rehabilitation project will affect wetlands. The new force main will be directionally drilled under the wetlands at Denios Creek, Opossum Creek and other wetlands.

100-Year Floodplain (Figure 3): The project will not affect the 100-year floodplain.

Surface Waters: The city intends to use horizontal directional drilling to install the force main across Opossum Creek, Denios Creek, and a tributary to Denios Creek. The project will not adversely affect waters of high quality listed in 327 IAC 2-1-2(3), Exceptional Use streams listed in 327 IAC 2-1-11(b), or Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2), Salmonid Streams listed in 327 IAC 2-1.5-5(a)(3), or waters of Outstanding Rivers list.

Groundwater: The project will not have an impact on the groundwater in the area.

Air Quality: Dust and noise will be temporary impacts of construction activities.

Open Space and Recreational Opportunities: The proposed project construction will neither create nor destroy open space and recreational opportunities.

The construction and operation of the proposed project will not affect National Natural Landmarks.

B. Indirect Impacts

The utility's Preliminary Engineering Report (PER) states: *The Columbus City Utilities, through the authority of its Utility Service Board, will ensure that future development, as well as future collection system or treatment works projects connecting to SRF-funded facilities will not adversely affect archaeological/historical/structural resources, wetlands, wooded area, or other sensitive environmental resources. The City will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

The U.S. Fish and Wildlife Service, in correspondence dated March 7, 2012, stated: *These comments are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation Policy.*

The new sewer main will have crossings of Denios Creek, one of its tributaries, and Opossum Creek. The project design proposes directional drilling as a first option for all 3 crossings. We strongly support that design, especially for Denios Creek, which contains a forested riparian buffer and is of sufficient size to support a diverse resident fish community.

Endangered Species

The proposed project is within range of the federally endangered Indiana bat (Myotis sodalis). We concur that the proposed project is not likely to adversely affect this listed species. This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act of 1973, as amended. If project plans change significantly please contact our office for further consultation.

The Indiana Department of Natural Resources Division of Historic Preservation and Archaeology, in correspondence dated March 8, 2012, stated: *Pursuant to IC 13-18-21 and 327 IAC 14 and Section 106 of the National Historic Preservation Act (16 U.S.C. § 470f) and 36 C.F.R. Part 800, the Indiana State Historic Preservation Officer ("Indiana SHPO") is conducting an analysis of the materials...for the...project in Columbus, Columbus and Wayne Townships, Indiana.*

Based on our analysis, it has been determined that no historic structures will be altered, demolished, or removed by the proposed project.

If any archaeological artifacts, features or human remains are uncovered during construction, state law (Indiana Code 14-21-1-27 & 29) requires that the discovery must be reported to the IDNR within two (2) business days.

The Natural Resources Conservation Service, in correspondence dated June 29, 2011, stated that the project will cause a conversion of [0.1 acres of] prime farmland.

The IDNR Environmental Unit has not yet commented on the proposed project.

VIII. MITIGATION MEASURES

The utility's PER lists the following mitigation measures, among others:

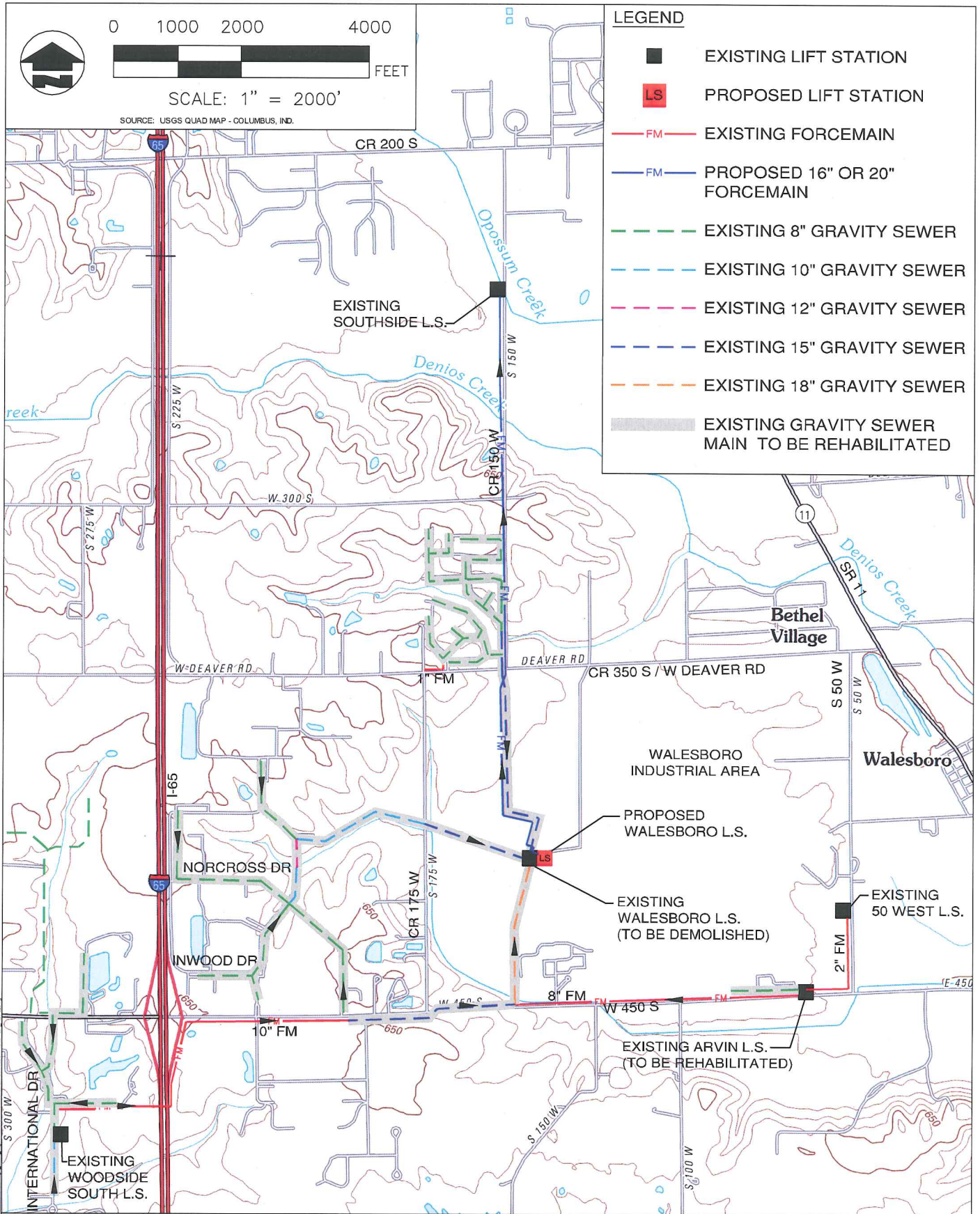
If applicable, mitigation measures cited in comment letters from the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

An erosion and sedimentation control plan will be developed and implemented in coordination with the Indiana Stormwater Quality Manual. Drainage systems will be stabilized as early as possible to avoid sedimentation problems. Surface and subsurface drainage patterns will be restored as early as possible. Construction activities (clearing and grading) will not be started until a firm schedule is known and can be effectively coordinated with the appropriate soil erosion control measures.

No chemicals (e.g. calcium chloride) will be used for dust control.

IX. PUBLIC PARTICIPATION

A public notice about this project was published in the local paper "The Republic" on August 24, 2011. The utility did not receive any written comments.



GRW PROJECT NO. 3987			
DESIGNED: DSW			
DRAWN: CDW			
REVIEWED: C.J.F.			
APPROVED: DSW			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	SRF COMMENT REVISIONS	12/15/11	C.J.F.
2	SRF COMMENT REVISIONS	03/05/12	C.J.F.

RECOMMENDED PLAN

FIGURE 1

COLUMBUS CITY UTILITIES

WALESBORO LIFT STATION & FORCEMAIN REPLACEMENT AND SANITARY SEWER IMPROVEMENTS

GRW

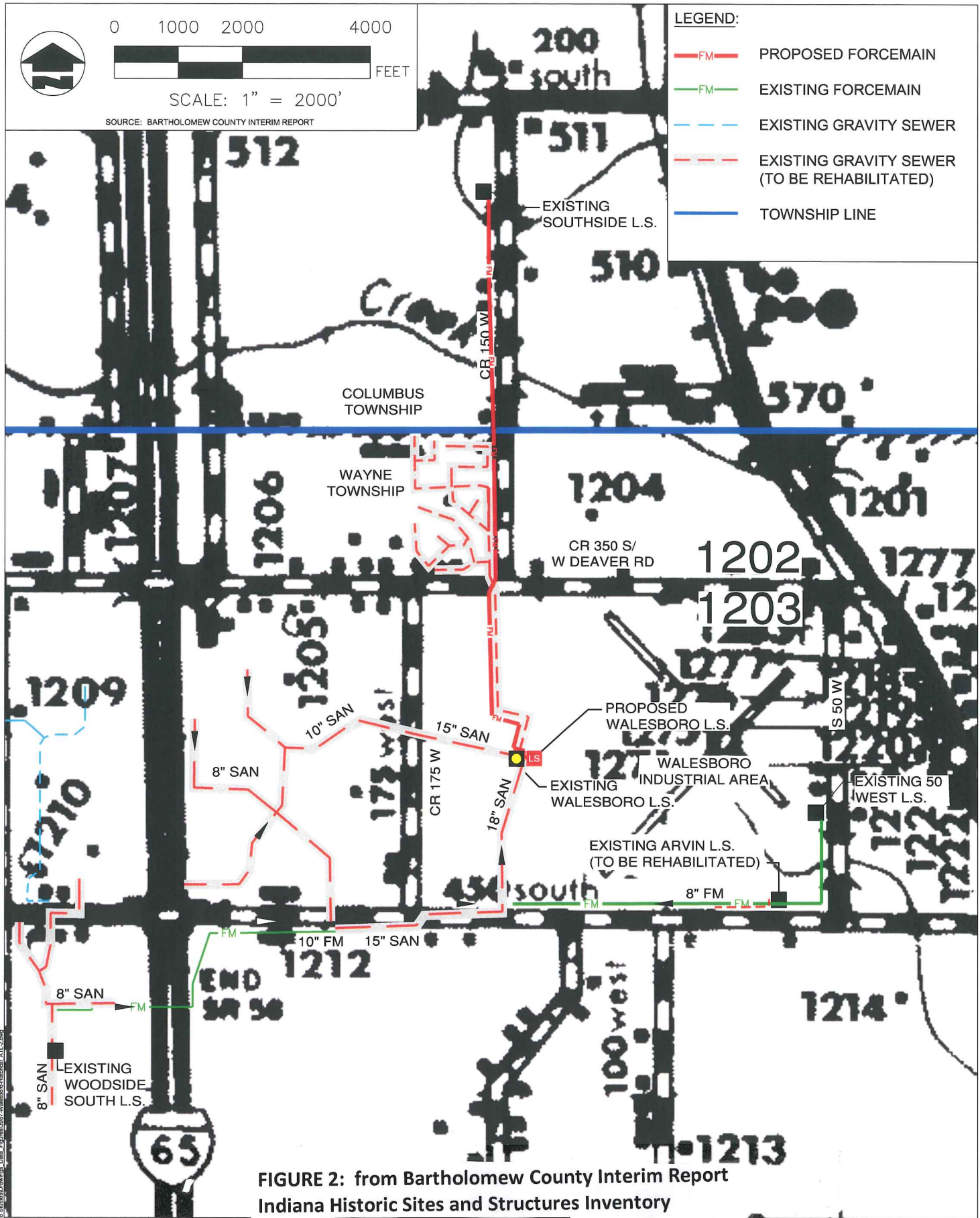
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DATE: AUGUST 2011

SCALE: 1" = 2000'



**FIGURE 2: from Bartholomew County Interim Report
Indiana Historic Sites and Structures Inventory**

GRW PROJECT NO. 3987				DESIGNED: DSW		HISTORICAL SITES & STRUCTURES (Columbus & Wayne Twp.) PRELIMINARY ENGINEERING REPORT COLUMBUS CITY UTILITIES WALESBORO LIFT STATION & FORCEMAIN REPLACEMENT AND SANITARY SEWER IMPROVEMENTS		 ENGINEERS - ARCHITECTS - PLANNERS www.grwinc.com <small>ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF GRW ENGINEERS, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT WRITTEN PERMISSION</small>	
DRAWN: CDW				REVIEWED: CJF					
APPROVED: DSW				DATE: AUGUST 2011					
SCALE CHECK: _____ THIS MARK SHOULD MEASURE EXACTLY 1/2" WHEN PLOTTED				SCALE: 1" = 2000'					
REVISIONS				BY					
NO.	DESCRIPTION	DATE	BY						
1	SRF COMMENT REVISIONS	12/15/11	CJF						

FILE NAME: \\0927-CDU-Waterworks\Reports and Studies\Drawings - Data_Figures\3987-Walesboro-Historical_ATL.dwg

